



Cat. No. 12-1780

200-Watt Amplifier Wiring Kit

Your RadioShack 200-Watt Amplifier Wiring Kit includes everything you need to connect an amplifier to your vehicle's existing autosound system. Your wiring kit comes with the following items. Be sure you locate everything shown before you store or dispose of the packing materials.

RCA interconnect cable



Red power cable/
Black ground cable



Blue remote turn-on wire



Split loom tubing



Grommet



Tie wraps



Butt connectors
(small and large)



Vinyl insulator boots
(red and black)



Ring terminals



Spade terminals



Fuse holder



Fuse



Before you use this wiring kit, make sure you have these materials:

- a drill with a 1/2-inch drill bit
- Phillips and flat-head screwdrivers
- a socket wrench with standard and metric sockets
- wire crimpers
- wire cutters
- wire stripper

You might also need electrical tape, heat shrink tubing, spade terminals such as RadioShack Cat. No. 64-3035, and a soldering iron and solder.

BEFORE YOU BEGIN THE INSTALLATION

Before you use your wiring kit, read all the instructions in this Owner's Manual. You should be able to answer all of these questions about your vehicle's electrical and autosound systems.

- Does my vehicle have an autosound system, such as a car stereo or CD player, already installed?
- Which of the autosound system's wires is the power wire?
- Which of the autosound system's terminals are low-level and which are high-level (speaker) outputs?

Also, be aware that installing an amplifier in your vehicle might require cutting or modifying your vehicle.

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Routing Cables and Wires

To help reduce electrical noise, route the RCA interconnect cable and any power wires separately, on opposite sides of your vehicle. Route all wires away from other high-voltage areas of your vehicle such as ignition control modules or other vehicle control systems. Avoid routing the connection cables and any wires near moving parts or sharp edges. You can usually route wires and cables along the wiring channel beneath the vehicle's door facings by carefully removing the molding that holds the carpet in place. After routing the cables and wires, replace the molding.

Note: For easier installation, mark a wire you plan to connect with the name of the terminal you will connect it to.

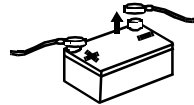
BEFORE YOU MAKE THE CONNECTIONS

The supplied connection cables include all the lead wires you need to connect your amplifier to ground, power, and your existing autosound system.

Important: If the connectors on your vehicle's autosound system are not compatible with the amplifier's connectors, you might need an adapter harness to complete the connections. RadioShack stores sell adapter harnesses for most vehicle autosound systems.

You might need additional wire, depending on your individual autosound system, to complete the connections. Your local RadioShack store carries a full line of wire and wire management accessories.

Caution: For added safety and to protect your amplifier and autosound system, disconnect the cable from your vehicle's negative (–) battery terminal before you begin.



To make it easier to connect the amplifier, temporarily place it as close as possible to the selected mounting location.

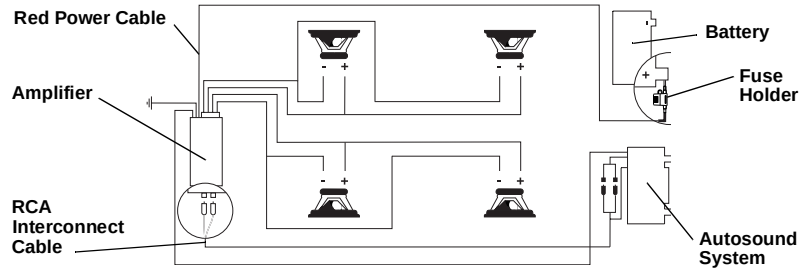
Note: If you accidentally cut a wire or if wire supplied with your autosound system or amplifier is too short, you can use the supplied butt connectors to connect wires to each other.

MAKING THE CONNECTIONS

Connecting the Power Cable

1. If you have not done so already, disconnect the cable from your vehicle's negative (–) battery terminal.
2. Check your vehicle's firewall for an existing rubber grommet or seal that is not already used to route wires or hoses. If one exists, use an object such as a screwdriver to pierce a hole in it, then route the supplied red power cable from the amplifier through the hole to your vehicle's battery. If one *does not* exist, drill a 1/2-inch hole through the firewall on the same side as your

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vehicle's battery, press the supplied grommet into the hole, then route the cable through the hole to your vehicle's battery.

3. Slide the supplied split loom tubing onto the exposed red power cable, leaving about 12 inches of cable exposed near the battery. Then secure the split loom tubing inside the engine compartment using some of the supplied tie wraps.
4. Cut the red power cable about 8 to 12 inches from the end near the battery, then slide the wide end of one of the supplied red vinyl insulator boots onto the short piece of cable. Leave about 1 inch of cable exposed above the boot.
5. Strip about $\frac{1}{2}$ inch of insulation from the end of the short piece of cable near the boot, then twist the wire so it will fit into the small end of one of the supplied ring terminals. Then insert the wire inside the ring terminal, use a wire crimper to crimp the terminal, and slide the boot over the terminal so it covers the joint.
6. Strip about $\frac{1}{2}$ inch of insulation from the other end of the short piece of cable, then twist the wire so it fits into one of the fuse holder's terminals. Then slide the wide end of one of the supplied black vinyl insulator boots onto the short piece of cable. Leave about 1 inch of cable exposed above the boot.
7. Thread the wire inside the fuse holder's terminal, and use a wire crimper to crimp the terminal. Then slide the black vinyl insulator boot over the joint so it covers it.
8. Repeat Steps 6 and 7 to attach the long piece of cable near the battery to the other side of the fuse holder.

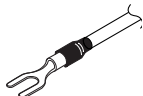
Caution: Make sure there is no fuse inside the fuse holder before continuing.

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Battery Holder

Autosound

9. Connect the red power cable to your vehicle's positive (+) battery terminal. Then tighten the terminal.
- Caution:** Due to the high current requirement for most amplifiers, you *must* connect the red power cable directly to the vehicle's positive (+) battery terminal or damage to your vehicle's wiring could result.
10. Slide the wide end of the other red vinyl insulator boot onto the other end of the long piece of cable (near the amplifier), then repeat Step 5 to attach one of the supplied spade terminals to the cable.
3. Slide the wide end of the other black vinyl insulator boot onto the other end of the black ground cable.
4. Connect the black ground cable with the ring terminal to a chassis ground, such as a metal bolt attached to a metal part of the vehicle's frame. Be sure the bolt is not insulated from the chassis by a plastic part, then slide the boot over the terminal so it covers the joint.
5. Follow the steps in the amplifier's owner's manual to attach the other end of the black ground cable to the amplifier.



11. Follow the steps in the amplifier's owner's manual to attach the red power cable to the amplifier.

Connecting the Ground Cable

1. Slide the wide end of one of the supplied black vinyl insulator boots onto one end of the supplied black ground cable, leaving about 1 inch of cable exposed above the boot.
2. Strip about $\frac{1}{2}$ inch of insulation from the end of the cable near the boot, then twist the wire so it will fit into the small end of the other supplied ring terminal. Then insert the wire inside the small end of the terminal, use a wire crimper to crimp the terminal, and slide the boot over the terminal so it covers the joint.

Connecting the RCA Interconnect Cable, Remote Turn-On Lead, and Speakers

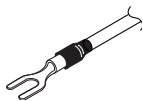
The RCA interconnect cable supplied with your wiring kit lets you connect an amplifier with two low-level line input jacks to an autosound system with two low-level line output jacks. If your amplifier or autosound system has more than two low-level line jacks, you will need additional cables (available at your local RadioShack store).

Caution: If your autosound system does not have low-level line output jacks, do not connect the RCA interconnect cable directly to your autosound system's speakers. To connect the cable to the speakers, you need a line output converter such as Cat. No. 12-1338 (not supplied).

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Follow these steps to connect the supplied RCA interconnect cable and remote turn-on lead to your amplifier and autosound system.

1. Connect the red (right) and black (left) plugs on the RCA interconnect cable to the output jacks on your autosound system. Then follow the steps in the amplifier's owner's manual to attach the other end of the cable to the amplifier.
2. Strip about $\frac{1}{4}$ inch of insulation from one end of the supplied blue remote turn-on wire, insert the bare wire inside the small end of a spade terminal (not supplied), then use a wire crimper to crimp the terminal.



3. Follow the steps in your autosound system's and amplifier's owner's manual to connect the blue remote turn-on wire to your autosound system's switched power lead and to the amplifier.
4. Follow the steps in the amplifier's owner's manual to connect your speakers to the amplifier.

Completing the Connections

Make sure you have securely made all other connections. Then pull up on the fuse holder's cap to open it, insert the supplied fuse into the fuse holder, and push down on the fuse holder's cap to close it. Then reconnect the cable to the vehicle's negative (-) battery terminal.

TESTING THE CONNECTIONS

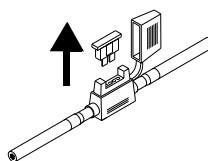
Turn on your vehicle's ignition and make sure the amplifier and autosound system work properly. If they do not work, **immediately disconnect the cable from your vehicle's negative (-) battery terminal.** Then recheck your connections.

REPLACING THE FUSE

If your amplifier or autosound equipment does not operate, you might need to replace the red power cable's fuse.

Caution: Do not use a fuse with ratings other than those specified here. Doing so might damage your amplifier.

1. Disconnect the cable from the vehicle's negative (-) battery terminal.
2. Pull up on the fuse holder's cap to open it, then grasp the fuse's plastic end and pull it out.



3. If the fuse is blown, replace it. Use only a blade-type fuse with the proper rating (such as Cat. No. 270-1085). The fuse must be 30 amps.
4. Grasp the fuse's plastic end and push it in, then push down on the fuse holder's cap to close it.
5. Reconnect the cable to the vehicle's negative (-) battery terminal.

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Limited Ninety-Day Warranty

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Some states do not allow the limitations on how long an implied warranty lasts or the exclusion of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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